

Amendments to the Claims:

1. (Currently Amended) A catalyst support comprising a Catalyst support body ~~[[(1)]]~~ having a surface ~~[[(2)]]~~ ~~on which~~ and a coating ~~[[(3)]]~~ bonded to the surface, is ~~provided~~, wherein the coating ~~[[(3)]]~~ comprises fissures ~~[[(4)]]~~ having a ~~length (5)~~, ~~these lengths exhibiting~~ a total fissure length of at least about 500 m/m² [meters per square meter] and the coating ~~[[(3)]]~~ having comprises an adhesive tensile strength of at least about 500 N/m² [Newtons per square meter].

2. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~claim~~ Claim 1, wherein the coating ~~[[(3)]]~~ having comprises a layer thickness ~~[[(6)]]~~ of at least about 0.02 mm [millimeters].

3. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~claim~~ Claim 1 ~~[[or 2]]~~, ~~the coating (3) having fissures (4) having a length (5)~~, wherein the total fissure length ~~being~~ comprises at least about 1000 m/m² [meters per square meter].

4. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~any one of the preceding claims~~ Claim 1, wherein the ~~catalyst support body~~ ~~[[has]]~~ comprises a first thermal expansion coefficient and the coating ~~[[(3)]]~~ comprises a second thermal expansion coefficient, the two thermal expansion coefficients differing, at least at a temperature in the range of from about 20°C to about 650°C, by at least about 10 %.

5. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~any one of the preceding claims~~ Claim 1, wherein the coating ~~[[(3)]]~~ is comprises a catalytically active coating ~~[[(3)]]~~ for a partial oxidation of propene and acrolein.

6. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~any one of the preceding claims~~ Claim 1, wherein the coating ~~[(3)]~~ comprises at least one inert constituent ~~[(7)]~~.

7. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~any one of the preceding claims~~ Claim 1, wherein the coating ~~[(3)]~~ comprises at least one constituent ~~[(7)]~~ containing silicon or aluminum and oxygen.

8. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~any one of the preceding claims~~ Claim 4, wherein the ~~eatalyst support body~~ ~~[(1)]~~ is constructed using metallic material.

9. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~any one of the preceding claims~~ Claim 1, wherein the ~~eatalyst support body~~ ~~[(1)]~~ comprises a multi-walled sheet structure ~~[(8)]~~ with at least one channel ~~[(9)]~~ through which a fluid is able to flow.

10. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~claim 8 or 9~~ Claim 8, wherein the ~~eatalyst support body~~ ~~[(1)]~~ comprises a plurality of plates ~~[(10)]~~ and the latter form openings ~~[(11)]~~ through which a fluid is able to flow.

11. (Currently Amended) The catalyst support ~~Catalyst support body (1)~~ according to ~~any one of claims 1 to 7~~ Claim 1, wherein the ~~eatalyst support body~~ ~~[(1)]~~ is constructed using ceramic material.

12. (Currently Amended) A reactor ~~Reactor~~ ~~[[25]]~~ for the preparation of ~~polymerisable~~ polymerizable monomers having at least one reaction chamber ~~[[12]]~~ through which a fluid is able to flow, the at least one reaction chamber ~~[[12]]~~ comprising at least one catalyst support ~~[[body (1)]]~~ in accordance with Claim 1 ~~any one of the preceding claims~~.

13. (Currently Amended) A process ~~Process~~ for the production of a coating ~~[[3]]~~ on a surface ~~[[2]]~~ of a catalyst support body ~~[[1]]~~, ~~which comprises at least the following the process comprising the steps:~~

- subjecting the support body to adhesion-enhancing treatment;
- ~~preparing preparation of~~ a solid/fluid phase ~~with comprising~~ a catalyst ~~suitable for the preparation of~~ capable of forming an organic molecule containing at least one double bond and oxygen~~[[,]]~~;
- ~~applying application of~~ the solid/fluid phase to a catalyst ~~the~~ support body ~~[[1]],~~ and
- ~~forming formation of~~ a coating ~~[[3]]~~ having fissures ~~[[4]]~~ having a length ~~(5),~~ the total fissure length ~~being comprising~~ at least about 500 m/m² [meters per square meter] ~~[[,]], the catalyst support body (1) being subjected to adhesion-enhancing treatment prior to the application of the solid/fluid phase.~~

14. (Currently Amended) The process ~~Process~~ according to ~~claim~~ Claim 13, wherein the subjecting of the support body to adhesion-enhancing treatment is prior to the ~~applying application of the solid/fluid phase the catalyst support body (1) is subjected to adhesion-enhancing treatment.~~

15. (Currently Amended) The process ~~Process~~ according to ~~claim~~ Claim 14, wherein at least one of the following steps is carried out, ~~especially in~~ with respect to ~~the~~ of catalyst support body (1) ~~of metallic material~~:

- a) abrasive blasting ~~[[of the]]~~ a surface ~~[[(2)]]~~;
- b) machining ~~[[of the]]~~ a surface ~~[[(2)]]~~;
- c) cleaning ~~[[of the]]~~ a surface ~~[[(2)]]~~; or
- d) thermally treating a ~~thermal treatment of the~~ surface ~~[[(2)]]~~.

16. (Currently Amended) The process ~~Process~~ according to ~~any one of claims~~ Claim 13 ~~[[to 15]]~~, wherein ~~the applying~~ application of the solid/fluid phase is ~~effected~~ comprises at least ~~in accordance with~~ one of the following steps: ~~spray application~~ spraying, spreading, pouring, or ~~immersion~~ immersing.

17. (Currently Amended) The process ~~Process~~ according to ~~any one of claims~~ Claim 13 ~~[[to 16]]~~, ~~wherein the catalyst~~ further comprising drying the support body (1) is dried after the applying ~~application~~ of the solid/fluid phase.

18. (Currently Amended) The process ~~Process~~ according to ~~any one of claims~~ Claim 13 ~~[[to 17]]~~, wherein the forming of the coating (3) ~~is formed by~~ comprises calcining.

19. (Currently Amended) The process ~~Process~~ according to ~~any one of claims~~ Claim 13 ~~[[to 18]]~~, ~~wherein~~ further comprising contacting the applied coating ~~[[(3)]]~~ is brought into contact with at least one ~~further~~ additional solid/fluid phase for impregnation of comprising at least one catalytically active material~~[[s]]~~.

20. (Currently Amended) The process ~~Process~~ according to ~~claim~~ Claim 19, ~~wherein further comprising thermally treating the impregnated coating (3) is subjected to a thermal treatment~~ contacted with the at least one additional solid/fluid phase comprising at least one catalytically active material.

21. (Currently Amended) The process ~~Process~~ according to ~~any one of claims~~ Claim 13 ~~[[to 20]], further comprising reducing the applied coating (3) is reduced.~~

22. (Currently Amended) The process ~~Process~~ according to ~~any one of claims~~ Claim 13 ~~[[to 21]], further comprising at least partially elastically deforming the catalyst support body (1) is at least partially elastically deformed,~~ so that fissures ~~[[(4)]]~~ are formed in the coating ~~[[(3)]]~~.

23. (Currently Amended) A process ~~Process~~ for the preparation of an organic molecule containing at least one double bond and oxygen, ~~in which the process comprising contacting an organic molecule containing at least one double bond is brought into contact with oxygen in the presence of a catalyst support body (1) according to any one of claims~~ Claim 1 ~~[[to 11]].~~

24. (Currently Amended) A process ~~Process~~ for the preparation of an organic molecule containing at least one double bond and oxygen, ~~in which the process comprising contacting an organic molecule containing at least one double bond is brought into contact with oxygen in at least one reactor~~ ~~[[(25)]]~~ according to ~~claim~~ Claim 12.